

PATENT ABSTRACTS OF JAPAN

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(71)Applicant : HITACHI LTD

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(54) DYNAMIC BALANCING METHOD OF ROTATOR IN HIGH TEMPERATURE ATMOSPHERE

(57)Abstract:

PURPOSE: To readily achieve dynamic balancing by intentionally generating local thermal deformations to rotator.

CONSTITUTION: A laser head 7 and a laser energy detector 8 are disposed in proximity to the outside circumferential surface of an axle 1 and are connected to a balance control unit 6. Then, when a turbine is rotated, the magnitude of the vibrations of the axle 1 and the rotating angle phase of the generaion sections are detected with a vibrator detector 5 and phase detector 9. These are then inputted via vibration processing circuit 61 to a bend phase detecting circuit 66 and a start-stop instruction circuit 64. Based on the outputs of the bend phase detecting circuit 66 and phase zero degree detecting circuit 62, a start time detecting circuit 67 operates and outputs the time signal which energizes a laser power source 63, then laser is radiated from the laser head 7, by which a local thermal deformation is generated in the specified position of the axle 1 and its unbalance is thereby eliminated.

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RESIST FOR PRODUCTION OF METALIC THROUGH HOLE TYPE PRINTED CIRCUIT BOARD
(English)

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